

**CRF Errors Corrected by the STIC Systems Branch**

Serial Number: 09/442489

CRF Processing Date: 12/9/99 #3

Edited by: \_\_\_\_\_

Verified by: [Signature] (STIC staff)

- ENTERED
- ☐ Changed a file from non-ASCII to ASCII
  - ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
  - ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
  - ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
  - ☐ Added the mandatory heading and subheadings for "Current Application Data".
  - ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
  - ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
  - ☒ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: 95
  - ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
  - ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
  - ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
  - ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
  - ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
  - ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
  - ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
  - ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
  - ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
  - ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
  - ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
  - ☐ Other: \_\_\_\_\_

RECEIVED  
DEC 17 1999  
OIEP/JCWS

RECEIVED  
DEC 17 1999  
OIEP/JCWS

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/442,489DATE: 12/10/1999  
TIME: 11:45:46

INPUT SET: S34164.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

## (1) General Information:

(i) APPLICANT: ALBERTSEN, HANS  
ANAND, RAKESH  
CARLSON, MARY  
GRODEN, JOANNA  
HEDGE, PHILIP J.  
JOSLYN, GEOFF  
KINZLER, KENNETH  
MARKHAM, ALEXANDER F.  
NAKAMURA, YUSUKE  
THLIVERIS, ANDREW  
VOGELSTEIN, BERT  
WHITE, RAYMOND L.

(ii) TITLE OF INVENTION: APC ANTIBODIES

(iii) NUMBER OF SEQUENCES: 102

## (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Banner & Witcoff, Ltd.  
(B) STREET: 1001 G Street, NW  
(C) CITY: Washington  
(D) STATE: D.C.  
(E) COUNTRY: USA  
(F) ZIP: 20001-4598

## (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.25

## (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:  
(B) FILING DATE:  
(C) CLASSIFICATION:

## (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/452,654  
(B) FILING DATE: 25-MAY-1995

## (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: US 08/289,548

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/442,489DATE: 12/10/1999  
TIME: 11:45:47

INPUT SET: S34164.raw

47 (B) FILING DATE: 12-AUG-1994  
48  
49 (vii) PRIOR APPLICATION DATA:  
50 (A) APPLICATION NUMBER: US 07/741,940  
51 (B) FILING DATE: 08-AUG-1991  
52  
53 (viii) ATTORNEY/AGENT INFORMATION:  
54 (A) NAME: Kagan, Sarah A.  
55 (B) REGISTRATION NUMBER: 32,141  
56 (C) REFERENCE/DOCKET NUMBER: 1107.78817  
57  
58 (ix) TELECOMMUNICATION INFORMATION:  
59 (A) TELEPHONE: 202-508-9100  
60 (B) TELEFAX: 202-508-9299  
61  
62  
63 (2) INFORMATION FOR SEQ ID NO:1:  
64  
65 (i) SEQUENCE CHARACTERISTICS:  
66 (A) LENGTH: 9606 base pairs  
67 (B) TYPE: nucleic acid  
68 (C) STRANDEDNESS: double  
69 (D) TOPOLOGY: linear  
70  
71 (ii) MOLECULE TYPE: cDNA  
72  
73 (vi) ORIGINAL SOURCE:  
74 (A) ORGANISM: Homo sapiens  
75  
76 (vii) IMMEDIATE SOURCE:  
77 (B) CLONE: DP2.5 (APC)  
78  
79 (ix) FEATURE:  
80 (A) NAME/KEY: CDS  
81 (B) LOCATION: 34..8562  
82  
83 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
84  
85 GGACTCGGAA ATGAGGTCCA AGGGTAGCCA AGG ATG GCT GCA GCT TCA TAT GAT 54  
86 Met Ala Ala Ala Ser Tyr Asp  
87 1 5  
88  
89 CAG TTG TTA AAG CAA GTT GAG GCA CTG AAG ATG GAG AAC TCA AAT CTT 102  
90 Gln Leu Leu Lys Gln Val Glu Ala Leu Lys Met Glu Asn Ser Asn Leu  
91 10 15 20  
92  
93 CGA CAA GAG CTA GAA GAT AAT TCC AAT CAT CTT ACA AAA CTG GAA ACT 150  
94 Arg Gln Glu Leu Glu Asp Asn Ser Asn His Leu Thr Lys Leu Glu Thr  
95 25 30 35  
96  
97 GAG GCA TCT AAT ATG AAG GAA GTA CTT AAA CAA CTA CAA GGA AGT ATT 198  
98 Glu Ala Ser Asn Met Lys Glu Val Leu Lys Gln Leu Gln Gly Ser Ile  
99 40 45 50 55

DATE: 12/10/1999  
TIME: 11:45:47

**INPUT SET: S34164.raw**

100																			
101	GAA	GAT	GAA	GCT	ATG	GCT	TCT	TCT	GGA	CAG	ATT	GAT	TTA	TTA	GAG	CGT			246
102	Glu	Asp	Glu	Ala	Met	Ala	Ser	Ser	Gly	Gln	Ile	Asp	Leu	Leu	Glu	Arg			
103					60					65						70			
104																			
105	CTT	AAA	GAG	CTT	AAC	TTA	GAT	AGC	AGT	AAT	TTC	CCT	GGA	GTA	AAA	CTG			294
106	Leu	Lys	Glu	Leu	Asn	Leu	Asp	Ser	Ser	Asn	Phe	Pro	Gly	Val	Lys	Leu			
107					75					80						85			
108																			
109	CGG	TCA	AAA	ATG	TCC	CTC	CGT	TCT	TAT	GGA	AGC	CGG	GAA	GGA	TCT	GTA			342
110	Arg	Ser	Lys	Met	Ser	Leu	Arg	Ser	Tyr	Gly	Ser	Arg	Glu	Gly	Ser	Val			
111					90					95						100			
112																			
113	TCA	AGC	CGT	TCT	GGA	GAG	TGC	AGT	CCT	GTT	CCT	ATG	GGT	TCA	TTT	CCA			390
114	Ser	Ser	Arg	Ser	Gly	Glu	Cys	Ser	Pro	Val	Pro	Met	Gly	Ser	Phe	Pro			
115					105					110						115			
116																			
117	AGA	AGA	GGG	TTT	GTA	AAT	GGA	AGC	AGA	GAA	AGT	ACT	GGA	TAT	TTA	GAA			438
118	Arg	Arg	Gly	Phe	Val	Asn	Gly	Ser	Arg	Glu	Ser	Thr	Gly	Tyr	Leu	Glu			
119																			
120																			
121	GAA	CTT	GAG	AAA	GAG	AGG	TCA	TTG	CTT	CTT	GCT	GAT	CTT	GAC	AAA	GAA			486
122	Glu	Leu	Glu	Lys	Glu	Arg	Ser	Leu	Leu	Leu	Ala	Asp	Leu	Asp	Lys	Glu			
123																150			
124																			
125	GAA	AAG	GAA	AAA	GAC	TGG	TAT	TAC	GCT	CAA	CTT	CAG	AAT	CTC	ACT	AAA			534
126	Glu	Lys	Glu	Lys	Asp	Trp	Tyr	Tyr	Ala	Gln	Leu	Gln	Asn	Leu	Thr	Lys			
127																			
128																			
129	AGA	ATA	GAT	AGT	CTT	CCT	TTA	ACT	GAA	AAT	TTT	TCC	TTA	CAA	ACA	GAT			582
130	Arg	Ile	Asp	Ser	Leu	Pro	Leu	Thr	Glu	Asn	Phe	Ser	Leu	Gln	Thr	Asp			
131																			
132																			
133	TTG	ACC	AGA	AGG	CAA	TTG	GAA	TAT	GAA	GCA	AGG	CAA	ATC	AGA	GTT	GCG			630
134	Leu	Thr	Arg	Arg	Gln	Leu	Glu	Tyr	Glu	Ala	Arg	Gln	Ile	Arg	Val	Ala			
135																			
136																			
137	ATG	GAA	GAA	CAA	CTA	GGT	ACC</												

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/442,489

DATE: 12/10/1999  
TIME: 11:45:47

INPUT SET: S34164.raw

153	CAA GGA GTG GGA GAA ATC AAC ATG GCA ACT TCT GGT AAT GGT CAG GGT	870
154	Gln Gly Val Gly Glu Ile Asn Met Ala Thr Ser Gly Asn Gly Gln Gly	
155	265 270 275	
156		
157	TCA ACT ACA CGA ATG GAC CAT GAA ACA GCC AGT GTT TTG AGT TCT AGT	918
158	Ser Thr Thr Arg Met Asp His Glu Thr Ala Ser Val Leu Ser Ser Ser	
159	280 285 290 295	
160		
161	AGC ACA CAC TCT GCA CCT CGA AGG CTG ACA AGT CAT CTG GGA ACC AAG	966
162	Ser Thr His Ser Ala Pro Arg Arg Leu Thr Ser His Leu Gly Thr Lys	
163	300 305 310	
164		
165	GTG GAA ATG GTG TAT TCA TTG TTG TCA ATG CTT GGT ACT CAT GAT AAG	1014
166	Val Glu Met Val Tyr Ser Leu Leu Ser Met Leu Gly Thr His Asp Lys	
167	315 320 325	
168		
169	GAT GAT ATG TCG CGA ACT TTG CTA GCT ATG TCT AGC TCC CAA GAC AGC	1062
170	Asp Asp Met Ser Arg Thr Leu Leu Ala Met Ser Ser Ser Gln Asp Ser	
171	330 335 340	
172		
173	TGT ATA TCC ATG CGA CAG TCT GGA TGT CTT CCT CTC CTC ATC CAG CTT	1110
174	Cys Ile Ser Met Arg Gln Ser Gly Cys Leu Pro Leu Leu Ile Gln Leu	
175	345 350 355	
176		
177	TTA CAT GGC AAT GAC AAA GAC TCT GTA TTG TTG GGA AAT TCC CGG GGC	1158
178	Leu His Gly Asn Asp Lys Asp Ser Val Leu Leu Gly Asn Ser Arg Gly	
179	360 365 370 375	
180		
181	AGT AAA GAG GCT CGG GCC AGG GCC AGT GCA GCA CTC CAC AAC ATC ATT	1206
182	Ser Lys Glu Ala Arg Ala Arg Ala Ser Ala Ala Leu His Asn Ile Ile	
183	380 385 390	
184		
185	CAC TCA CAG CCT GAT GAC AAG AGA GGC AGG CGT GAA ATC CGA GTC CTT	1254
186	His Ser Gln Pro Asp Asp Lys Arg Gly Arg Arg Glu Ile Arg Val Leu	
187	395 400 405	
188		
189	CAT CTT TTG GAA CAG ATA CGC GCT TAC TGT GAA ACC TGT TGG GAG TGG	1302
190	His Leu Leu Glu Gln Ile Arg Ala Tyr Cys Glu Thr Cys Trp Glu Trp	
191	410 415 420	
192		
193	CAG GAA GCT CAT GAA CCA GGC ATG GAC CAG GAC AAA AAT CCA ATG CCA	1350
194	Gln Glu Ala His Glu Pro Gly Met Asp Gln Asp Lys Asn Pro Met Pro	
195	425 430 435	
196		
197	GCT CCT GTT GAA CAT CAG ATC TGT CCT GCT GTG TGT GTT CTA ATG AAA	1398
198	Ala Pro Val Glu His Gln Ile Cys Pro Ala Val Cys Val Leu Met Lys	
199	440 445 450 455	
200		
201	CTT TCA TTT GAT GAA GAG CAT AGA CAT GCA ATG AAT GAA CTA GGG GGA	1446
202	Leu Ser Phe Asp Glu Glu His Arg His Ala Met Asn Glu Leu Gly Gly	
203	460 465 470	
204		
205	CTA CAG GCC ATT GCA GAA TTA TTG CAA GTG GAC TGT GAA ATG TAT GGG	1494

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/442,489

DATE: 12/10/1999  
TIME: 11:45:48

INPUT SET: S34164.raw

206	Leu Gln Ala Ile Ala Glu Leu Leu Gln Val Asp Cys Glu Met Tyr Gly	
207	475 480 485	
208		
209	CTT ACT AAT GAC CAC TAC AGT ATT ACA CTA AGA CGA TAT GCT GGA ATG	1542
210	Leu Thr Asn Asp His Tyr Ser Ile Thr Leu Arg Arg Tyr Ala Gly Met	
211	490 495 500	
212		
213	GCT TTG ACA AAC TTG ACT TTT GGA GAT GTA GCC AAC AAG GCT ACG CTA	1590
214	Ala Leu Thr Asn Leu Thr Phe Gly Asp Val Ala Asn Lys Ala Thr Leu	
215	505 510 515	
216		
217	TGC TCT ATG AAA GGC TGC ATG AGA GCA CTT GTG GCC CAA CTA AAA TCT	1638
218	Cys Ser Met Lys Gly Cys Met Arg Ala Leu Val Ala Gln Leu Lys Ser	
219	520 525 530 535	
220		
221	GAA AGT GAA GAC TTA CAG CAG GTT ATT GCA AGT GTT TTG AGG AAT TTG	1686
222	Glu Ser Glu Asp Leu Gln Gln Val Ile Ala Ser Val Leu Arg Asn Leu	
223	540 545 550	
224		
225	TCT TGG CGA GCA GAT GTA AAT AGT AAA AAG ACG TTG CGA GAA GTT GGA	1734
226	Ser Trp Arg Ala Asp Val Asn Ser Lys Lys Thr Leu Arg Glu Val Gly	
227	555 560 565	
228		
229	AGT GTG AAA GCA TTG ATG GAA TGT GCT TTA GAA GTT AAA AAG GAA TCA	1782
230	Ser Val Lys Ala Leu Met Glu Cys Ala Leu Glu Val Lys Lys Glu Ser	
231	570 575 580	
232		
233	ACC CTC AAA AGC GTA TTG AGT GCC TTA TGG AAT TTG TCA GCA CAT TGC	1830
234	Thr Leu Lys Ser Val Leu Ser Ala Leu Trp Asn Leu Ser Ala His Cys	
235	585 590 595	
236		
237	ACT GAG AAT AAA GCT GAT ATA TGT GCT GTA GAT GGT GCA CTT GCA TTT	1878
238	Thr Glu Asn Lys Ala Asp Ile Cys Ala Val Asp Gly Ala Leu Ala Phe	
239	600 605 610 615	
240		
241	TTG GTT GGC ACT CTT ACT TAC CGG AGC CAG ACA AAC ACT TTA GCC ATT	1926
242	Leu Val Gly Thr Leu Thr Tyr Arg Ser Gln Thr Asn Thr Leu Ala Ile	
243	620 625 630	
244		
245	ATT GAA AGT GGA GGT GGG ATA TTA CGG AAT GTG TCC AGC TTG ATA GCT	1974
246	Ile Glu Ser Gly Gly Gly Ile Leu Arg Asn Val Ser Ser Leu Ile Ala	
247	635 640 645	
248		
249	ACA AAT GAG GAC CAC AGG CAA ATC CTA AGA GAG AAC AAC TGT CTA CAA	2022
250	Thr Asn Glu Asp His Arg Gln Ile Leu Arg Glu Asn Asn Cys Leu Gln	
251	650 655 660	
252		
253	ACT TTA TTA CAA CAC TTA AAA TCT CAT AGT TTG ACA ATA GTC AGT AAT	2070
254	Thr Leu Leu Gln His Leu Lys Ser His Ser Leu Thr Ile Val Ser Asn	
255	665 670 675	
256		
257	GCA TGT GGA ACT TTG TGG AAT CTC TCA GCA AGA AAT CCT AAA GAC CAG	2118
258	Ala Cys Gly Thr Leu Trp Asn Leu Ser Ala Arg Asn Pro Lys Asp Gln	

INPUT SET: S34164.raw

## \*\*\*\*\* PREVIOUSLY ERRORED SEQUENCES - EDITED \*\*\*\*\*

3915 (2) INFORMATION FOR SEQ ID NO: 95:  
3916  
3917 (i) SEQUENCE CHARACTERISTICS:  
3918 (A) LENGTH: 25 base pairs  
3919 (B) TYPE: nucleic acid  
3920 (C) STRANDEDNESS: single  
3921 (D) TOPOLOGY: linear  
3922  
3923 (ii) MOLECULE TYPE: cDNA  
3924  
3925 (vi) ORIGINAL SOURCE:  
3926 (A) ORGANISM: Homo sapiens  
3927  
3928  
3929 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:  
3930  
3931 AGAAGGATCC CTTGTGCAGT GTGGA  
3932

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25

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/442,489**

DATE: 12/10/1999  
TIME: 11:45:49

*INPUT SET: S34164.raw*

Line	Error	Original Text
16	Response Exceeds Line Limitations	WHITE, RAYMOND L.



RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/442,489

DATE: 12/10/1999  
TIME: 03:27:56

INPUT SET: S34164.raw

This Raw Listing contains the General  
Information Section and those Sequences  
containing ERRORS.

SEQUENCE LISTING

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: ALBERTSEN, HANS  
6 ANAND, RAKESH  
7 CARLSON, MARY  
8 GRODEN, JOANNA  
9 HEDGE, PHILIP J.  
10 JOSLYN, GEOFF  
11 KINZLER, KENNETH  
12 MARKHAM, ALEXANDER F.  
13 NAKAMURA, YUSUKE  
14 THLIVERIS, ANDREW  
15 VOGELSTEIN, BERT  
16 WHITE, RAYMOND L.  
17  
18 (ii) TITLE OF INVENTION: APC ANTIBODIES  
19  
20 (iii) NUMBER OF SEQUENCES: 102  
21  
22 (iv) CORRESPONDENCE ADDRESS:  
23 (A) ADDRESSEE: Banner & Witcoff, Ltd.  
24 (B) STREET: 1001 G Street, NW  
25 (C) CITY: Washington  
26 (D) STATE: D.C.  
27 (E) COUNTRY: USA  
28 (F) ZIP: 20001-4598  
29  
30 (v) COMPUTER READABLE FORM:  
31 (A) MEDIUM TYPE: Floppy disk  
32 (B) COMPUTER: IBM PC compatible  
33 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
34 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25  
35  
36 (vi) CURRENT APPLICATION DATA:  
37 (A) APPLICATION NUMBER:  
38 (B) FILING DATE:  
39 (C) CLASSIFICATION:  
40  
41 (vii) PRIOR APPLICATION DATA:  
42 (A) APPLICATION NUMBER: US 08/452,654  
43 (B) FILING DATE: 25-MAY-1995  
44  
45 (vii) PRIOR APPLICATION DATA:

Does Not Comply  
Corrected Diskette Needed

-->

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/442,489DATE: 12/10/1999  
TIME: 03:27:56

INPUT SET: S34164.raw

46 (A) APPLICATION NUMBER: US 08/289,548  
47 (B) FILING DATE: 12-AUG-1994  
48  
49 (vii) PRIOR APPLICATION DATA:  
50 (A) APPLICATION NUMBER: US 07/741,940  
51 (B) FILING DATE: 08-AUG-1991  
52  
53 (viii) ATTORNEY/AGENT INFORMATION:  
54 (A) NAME: Kagan, Sarah A.  
55 (B) REGISTRATION NUMBER: 32,141  
56 (C) REFERENCE/DOCKET NUMBER: 1107.78817  
57  
58 (ix) TELECOMMUNICATION INFORMATION:  
59 (A) TELEPHONE: 202-508-9100  
60 (B) TELEFAX: 202-508-9299  
61  
62

## ERRORED SEQUENCES FOLLOW:

3915 (2) INFORMATION FOR SEQ ID NO: 95:  
3916  
3917 (i) SEQUENCE CHARACTERISTICS:  
3918 (A) LENGTH: 25 base pairs  
3919 (B) TYPE: nucleic acid  
3920 (C) STRANDEDNESS: single  
3921 (D) TOPOLOGY: linear  
3922  
3923 (ii) MOLECULE TYPE: cDNA  
3924  
3925 (vi) ORIGINAL SOURCE:  
3926 (A) ORGANISM: Homo sapiens  
3927  
3928  
--> 3929 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 94:  
3930  
3931 AGAAGGATCC CTTGTGCAGT GTGGA  
3932

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/442,489**

DATE: 12/10/1999  
TIME: 03:27:57

*INPUT SET: S34164.raw*

Line	Error	Original Text
16 3929	Response Exceeds Line Limitations Wrong Sequence Number	WHITE, RAYMOND L. (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94: